

CLAIMS

What is claimed is:

- 1 1. An expansion card support, comprising:
2 a tool-free, chassis mountable arm comprising a support end and a card-
3 configurable mount to orient the support end over an expansion card
4 within a chassis, wherein the chassis mountable arm is adapted to
5 bias the expansion card.
- 1 2. The expansion card support set forth in claim 1, wherein the tool-
2 free, chassis mountable arm comprises a mounting base and a rotatable finger.
- 1 3. The expansion card support set forth in claim 2, wherein the
2 mounting base comprises a chassis mounting latch.
- 1 4. The expansion card support set forth in claim 2, wherein the
2 mounting base comprises at least one finger mounting receptacle.
- 1 5. The expansion card support set forth in claim 4, wherein the at least
2 one finger mounting receptacle comprises a finger mounting latch.
- 1 6. The expansion card support set forth in claim 1, wherein the tool-
2 free, chassis mountable arm comprises a spring adapted to bias the support end
3 against the expansion card.

1 7. The expansion card support set forth in claim 1, wherein the tool-
2 free chassis mountable arm is rotatable to move the support end to a plurality of
3 positions to accommodate different card dimensions.

1 8. The expansion card support set forth in claim 1, wherein the support
2 end comprises a lateral retention mechanism.

1 9. The expansion card support set forth in claim 8, wherein the lateral
2 retention mechanism comprises a frictional material.

1 10. The expansion card support set forth in claim 8, wherein the lateral
2 retention mechanism comprises a multi-leveled surface.

1 11. A computer, comprising:
2 a chassis;
3 a plurality of card slots; and
4 a card support mechanism, comprising:
5 a tool-free chassis mount coupled to the chassis adjacent the
6 plurality of card slots;
7 a plurality of tool-free arm mounts; and
8 at least one rotatable arm mounted to a desired one of the plurality
9 of tool-free arm mounts, wherein the rotatable arm
10 comprises a card engagement end positioned over a desired
11 one of the plurality of card slots.

1 12. The computer set forth in claim 11, comprising an electronics card
2 disposed in the card slot, wherein the card engagement end is biased against the
3 electronics card.

1 13. The computer set forth in claim 11, wherein the tool-free chassis
2 mount comprises a snap-fit mount coupled to a mating snap-fit mount disposed on
3 the chassis.

1 14. The computer set forth in claim 11, wherein the card support
2 mechanism comprises at least one other rotatable arm mounted to another desired
3 one of the plurality of tool-free arm mounts and having another card engagement
4 end positionable over another desired one of the plurality of card slots.

1 15. The computer set forth in claim 11, wherein the card engagement
2 end comprises a substantially frictional material.

1 16. The computer set forth in claim 15, wherein the substantially
2 frictional material comprises a rubber pad.

1 17. The computer set forth in claim 11, wherein the card engagement
2 end comprises at least one groove adapted to engage a peripheral edge of an
3 electronics card mountable in the desired one of the plurality of card slots.

1 18. A card support for a computer, the card support comprising:
2 means for configurably biasing a card into a card slot;
3 means for laterally supporting a peripheral portion of the card.

1 19. The card support set forth in claim 18, comprising means for tool-free
2 chassis mounting the means for configurably biasing and the means for laterally
3 supporting.

1 20. The card support set forth in claim 18, wherein the means for
2 configurably biasing comprise means for rotatably contacting the peripheral portion.

1 21. The card support set forth in claim 18, wherein the means for biasing
2 comprise means for engaging an intermediate edge of the peripheral portion.

1 22. A system, comprising:
2 a card support mechanism configurable for at least one electronics card,
3 comprising:
4 a chassis with at least one tool-free mounting mechanism; and
5 an arm rotatably coupled to the chassis, wherein the arm comprises
6 a card retention end springably engageable against a
7 peripheral portion of the at least one electronics card.

1 23. The system set forth in claim 22, wherein the arm is removable
2 from the chassis.

1 24. The system set forth in claim 22, wherein the arm is rotatable to
2 engage and secure the at least one electronics card to the card support mechanism.

1 25. The system set forth in claim 22, wherein the arm comprises an
2 elongated configuration with one end rotatably coupled to the chassis.

1 26. The system set forth in claim 22, wherein the chassis comprises a
2 desktop computer.

1 27. The system set forth in claim 22, wherein the chassis comprises a
2 server.

1 28. A system, comprising:
2 a card support mechanism, comprising:
3 a chassis mountable structure adapted for tool-free, cantilevered
4 chassis mounting to a chassis; and
5 a springy arm rotatably coupled to the chassis mountable structure
6 and engageable against an electronics card disposed in the
7 chassis.

1 29. The system set forth in claim 28, wherein the spring arm comprises
2 an engagement end having at least one groove adapted to engage an outer edge of
3 the electronics card.

1 30. The system set forth in claim 28, wherein the card support
2 mechanism is adapted to provide lateral support to the expansion card.

1 31. A system, comprising:
2 a chassis comprising a first side and a second side adjacent the first side;
3 a board mounted to the first side and having a card slot;
4 an expansion card mounted to the card slot; and
5 a card support arm rotatably coupled to the second side and engaged
6 against a portion of the expansion card opposite from the board.

1 32. The system set forth in claim 31, wherein the card support arm
2 comprises at least one tool-free mount removably coupled to the second side.

1 33. The system set forth in claim 31, wherein the card support arm is
2 cantilevered to the second side.

1 34. The system set forth in claim 31, wherein the card support arm is
2 disposed in one of a plurality of receptacles in a mounting base.

1 35. The system set forth in claim 34, wherein the plurality of receptacles
2 each comprise a tool-free mounting mechanism for a plurality of card support
3 arms.

1 36. The system set forth in claim 31, wherein the card support arm
2 comprises a spring biasing the card support arm toward the expansion card.